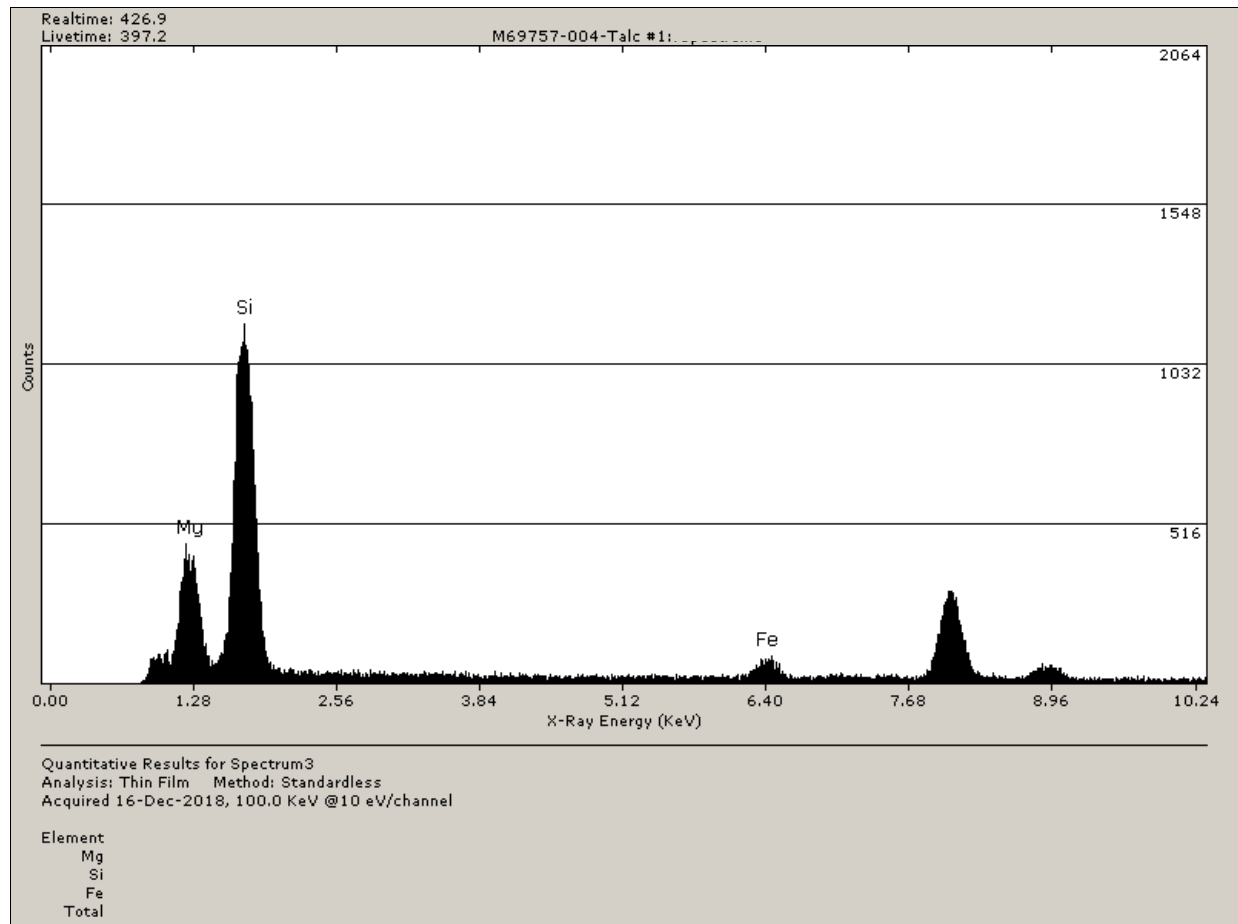
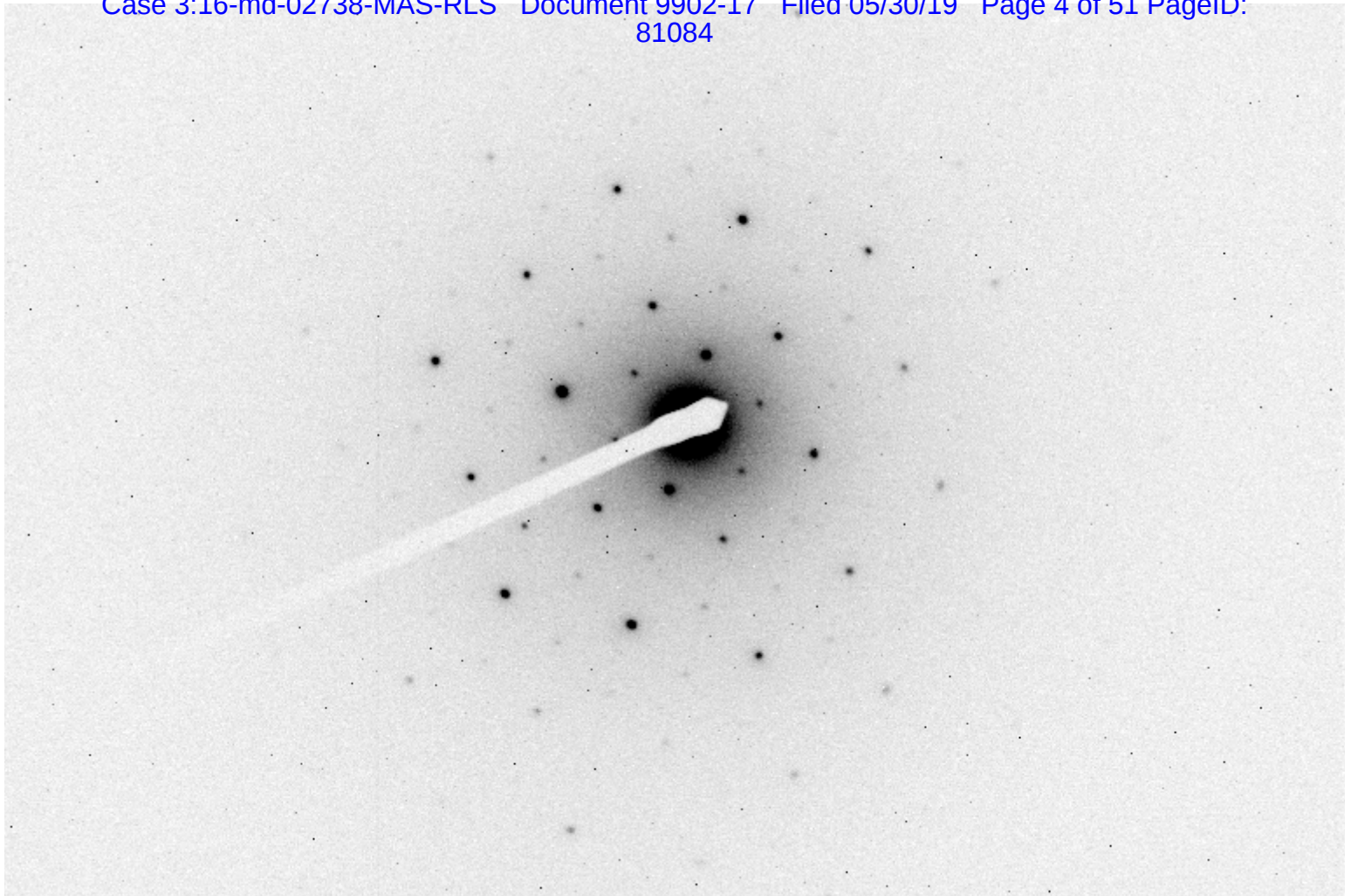


Exhibit 67-R

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-004		Grid Box #	8344	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G.O. Area
Date of Analysis	12/14/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.04122			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	C8-B4	Fibrous Talc	8.7	1.5	5.8	Fibrous Talc Observed Trace throughout	

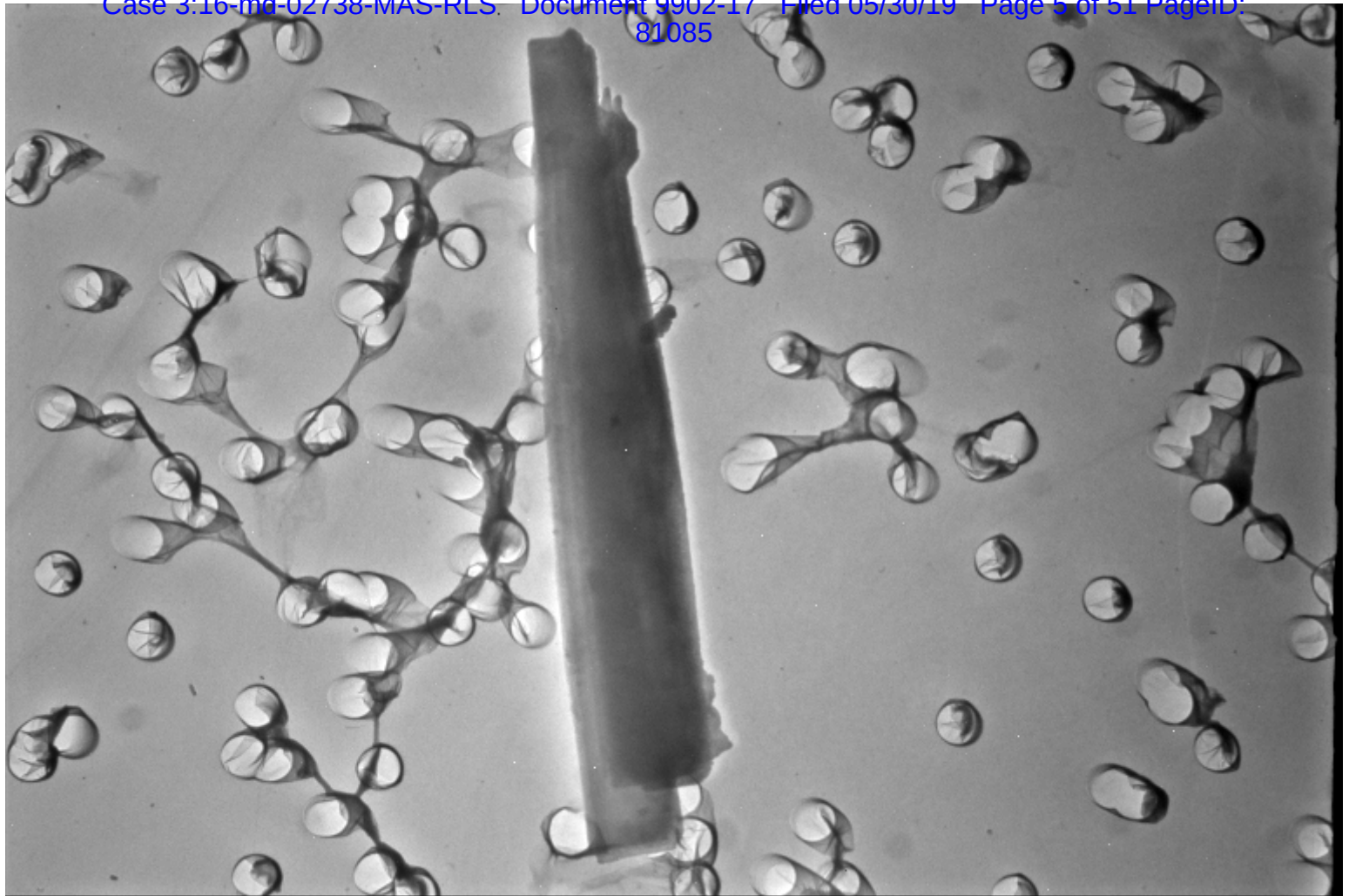




311054

M69757-004-Talc #1 Diffraction @ 50cm

12/16/2018



311053

M69757-004-Talc #1 (8.7 um x 1.5 um)

12/16/2018

Section 9

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 036ISO **Analyst** Paul Hess **Date** 12/13/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180313-02A
Location _____
Type_Mat Talc
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %
NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opaques

X

Talc

X

Mineral grains

X

Binder Description

Comments *** Moderate amount fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 036BL **Analyst** Paul Hess **Date** 12/15/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180313-02A
Location _____
Type_Mat Talc
Gross White debris with tan flecks on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %
NO ASBESTOS OBSERVED

Chrysotile.....	_____
Amosite.....	_____
Crocidolite.....	_____
Tremolite/Actinolite.....	_____
Anthophyllite.....	_____

OTHER FIBROUS COMPONENTS

_____	_____
_____	_____
_____	_____
_____	_____

NON FIBROUS COMPONENTS

Opakes	_____	X
Talc	_____	X
Mineral grains	_____	X
_____	_____	_____

Binder Description _____

Comments Actinolite/Tremolite cleavage fragments/particles observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-036		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	12/15/2018 - 12/16/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04173			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	D2-A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
1	D2	Bundle	Tremolite	6.3	0.18	35.0	X	X
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							
NSD	F2							
NSD	F4							
NSD	F5							
NSD	F6							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-036		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	12/15/2018 - 12/16/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04173			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E2-A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							

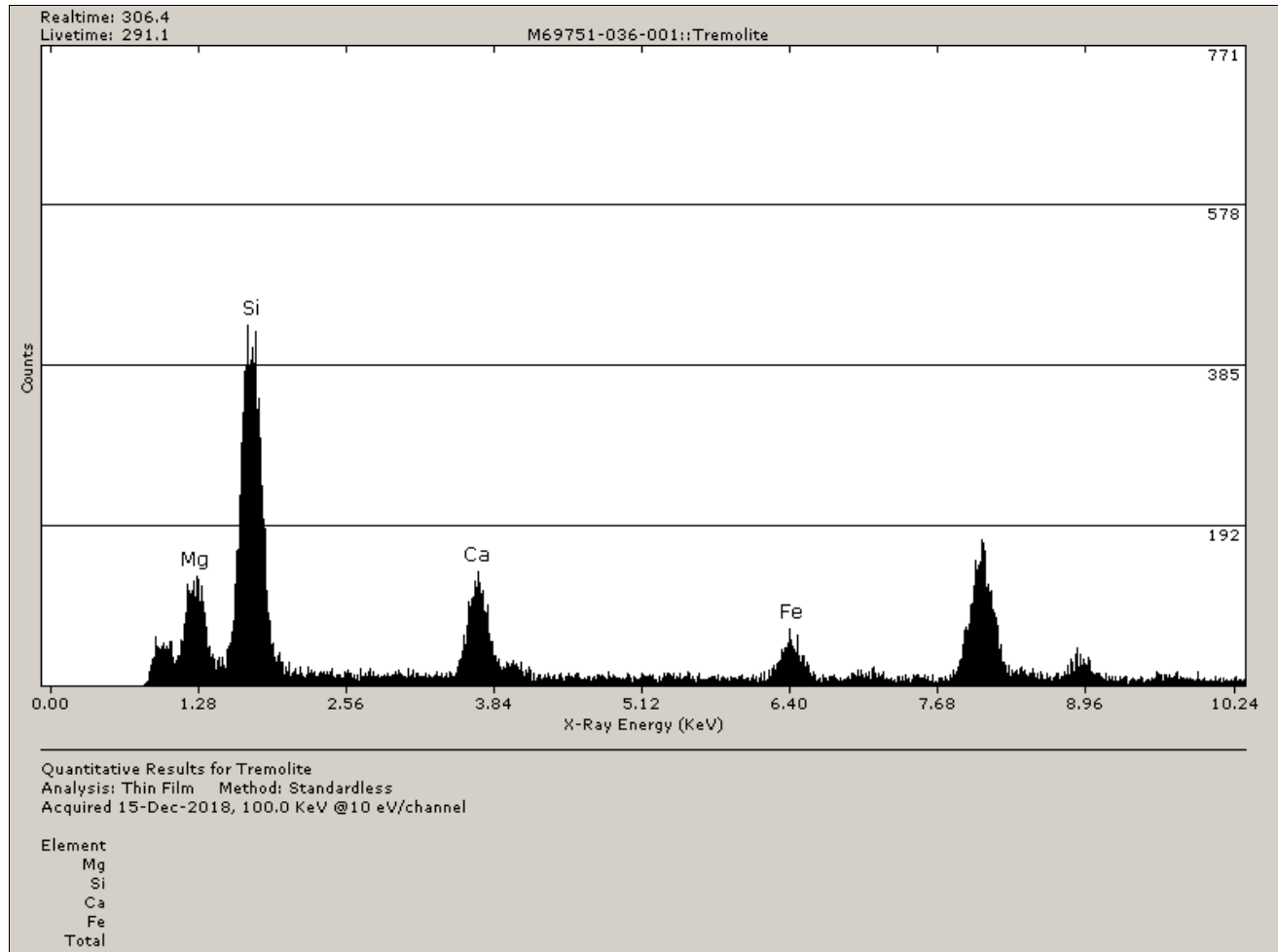
TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-036		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	12/15/2018 - 12/16/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04173			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

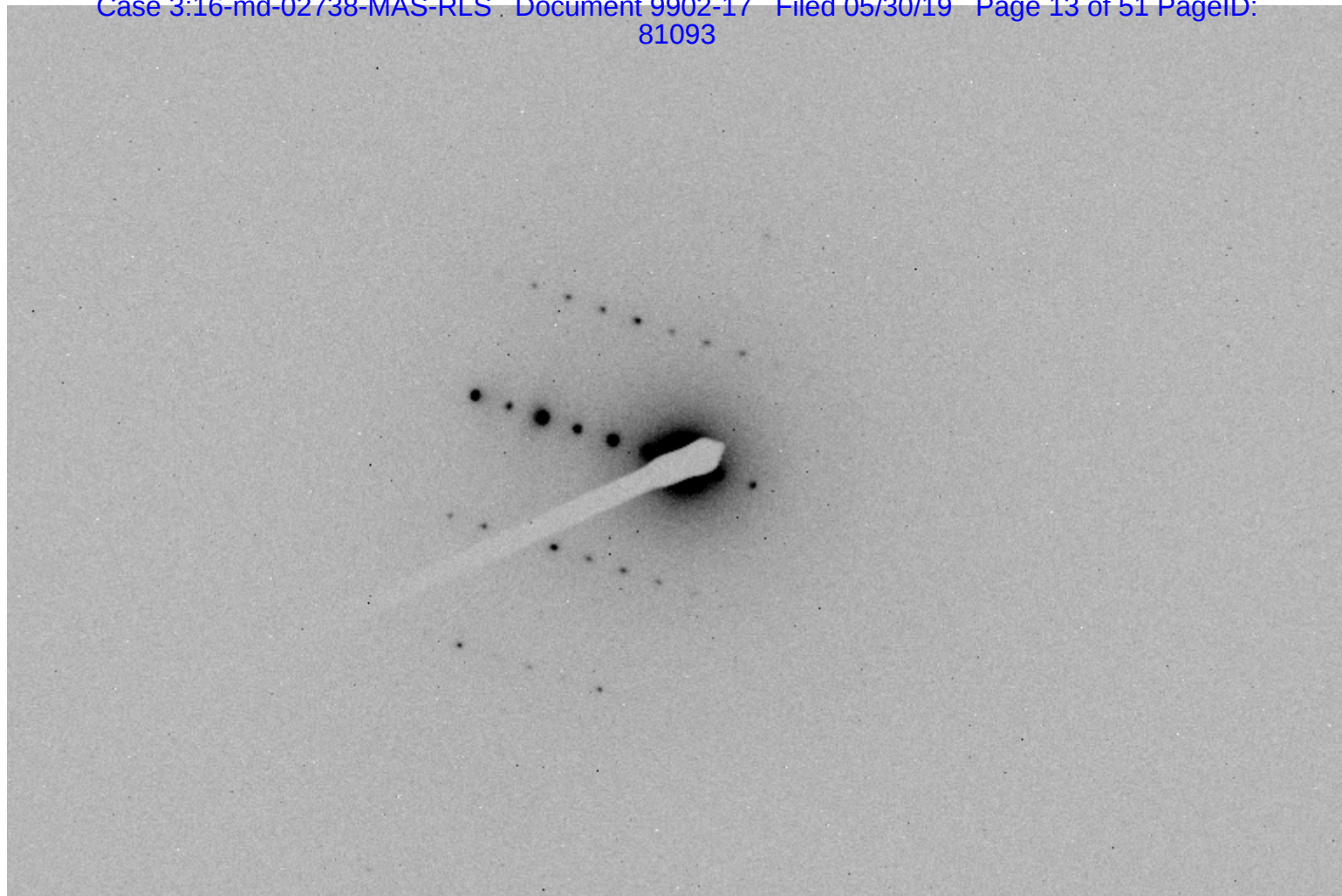
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

Org. Sample Wt.	Sample Wt. Post HL Separation
0.04173	0.04173 g
Percent of Orig. Post Separation	100 (%)

Wt. Of Sample Analyzed	0.00022878 g
Filter size	201.1 mm ²
Number of Structures Counted	1 Str.
Structures per Gram of Sample	4.37E+03 Str./g

Detection Limit	4.37E+03 Str./g
Analytical Sensitivity	4.37E+03 Str./g

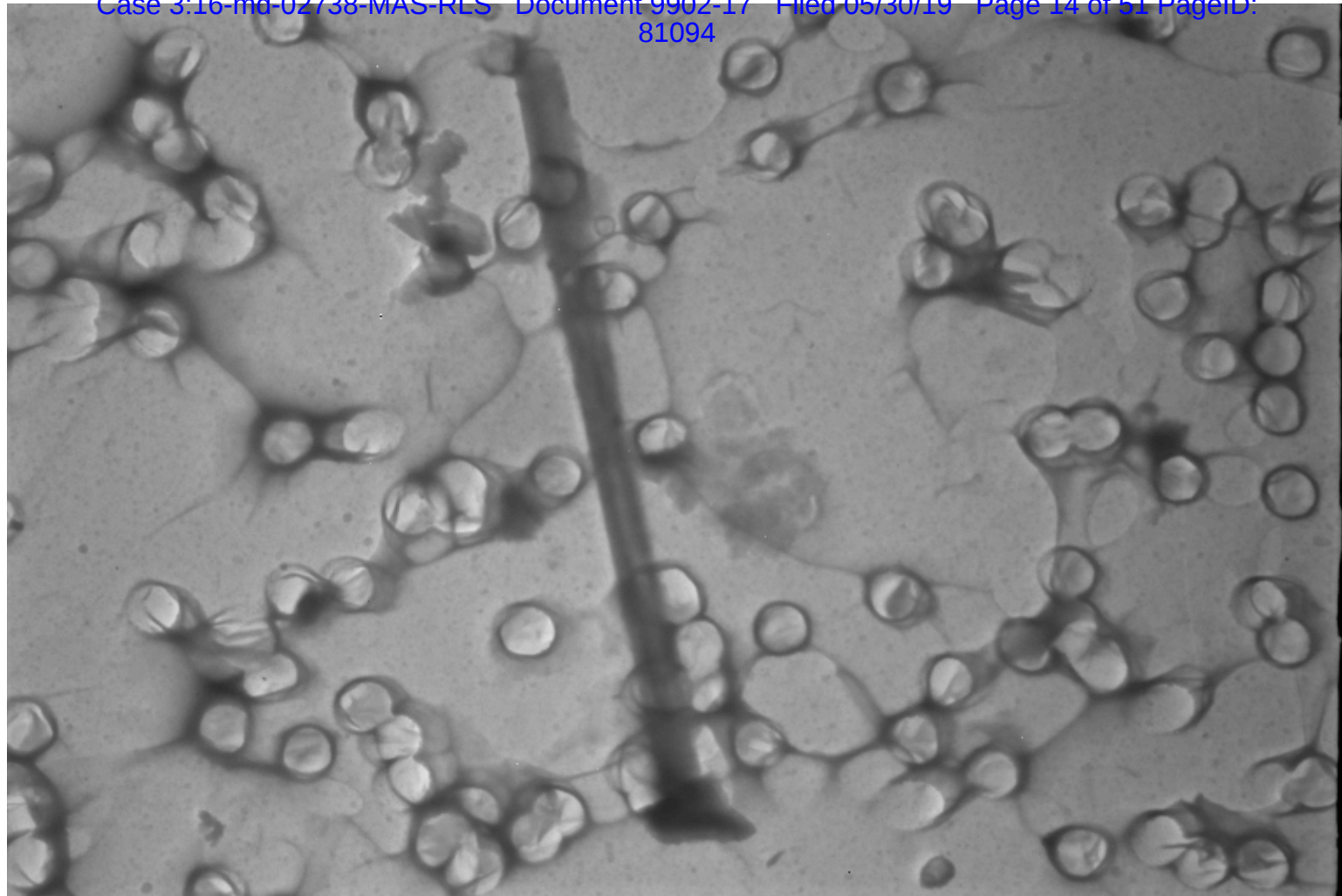




310993

M69751-036-001 Tremolite Diffraction @ 50cm

12/15/2018



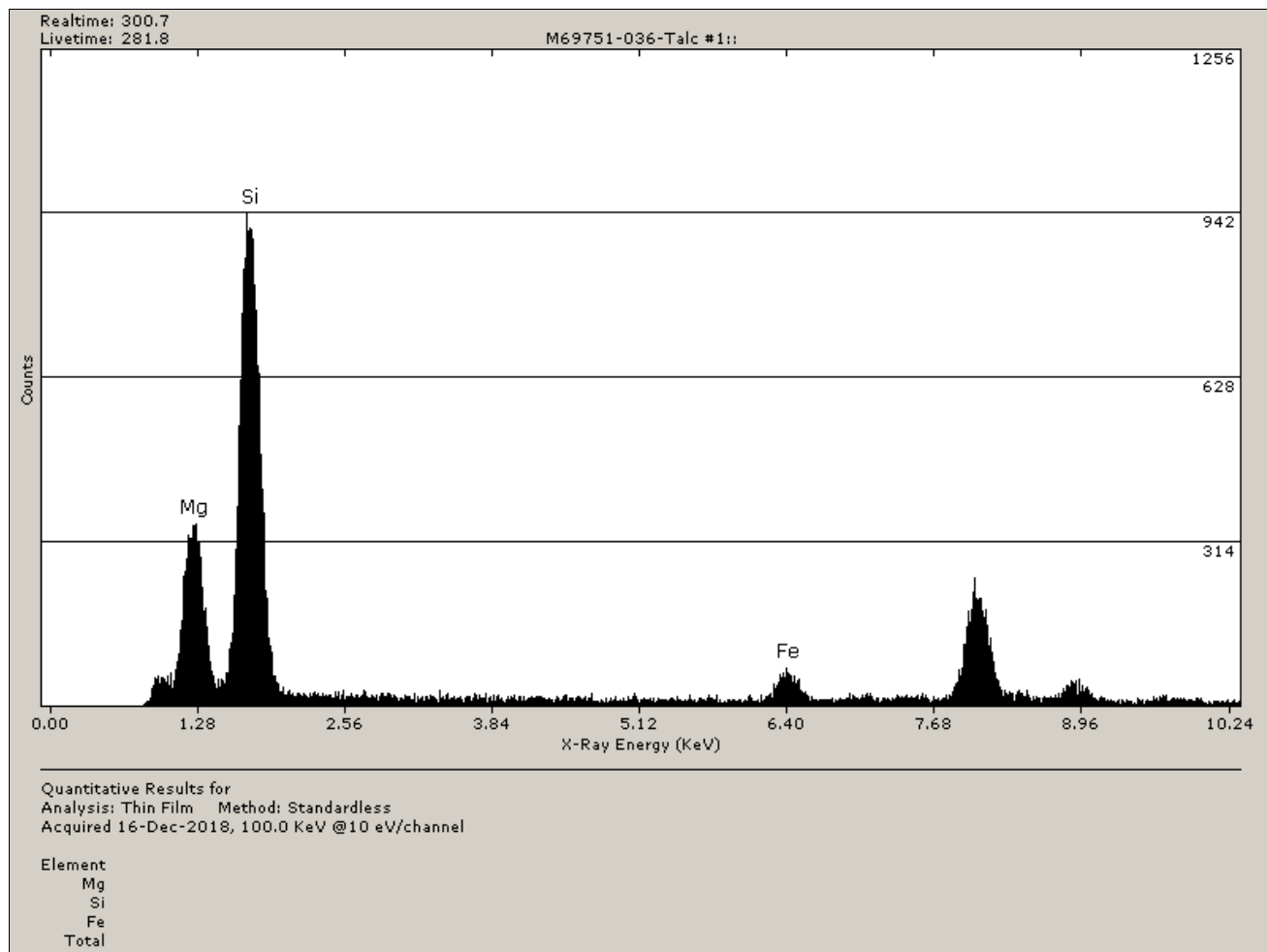
311002

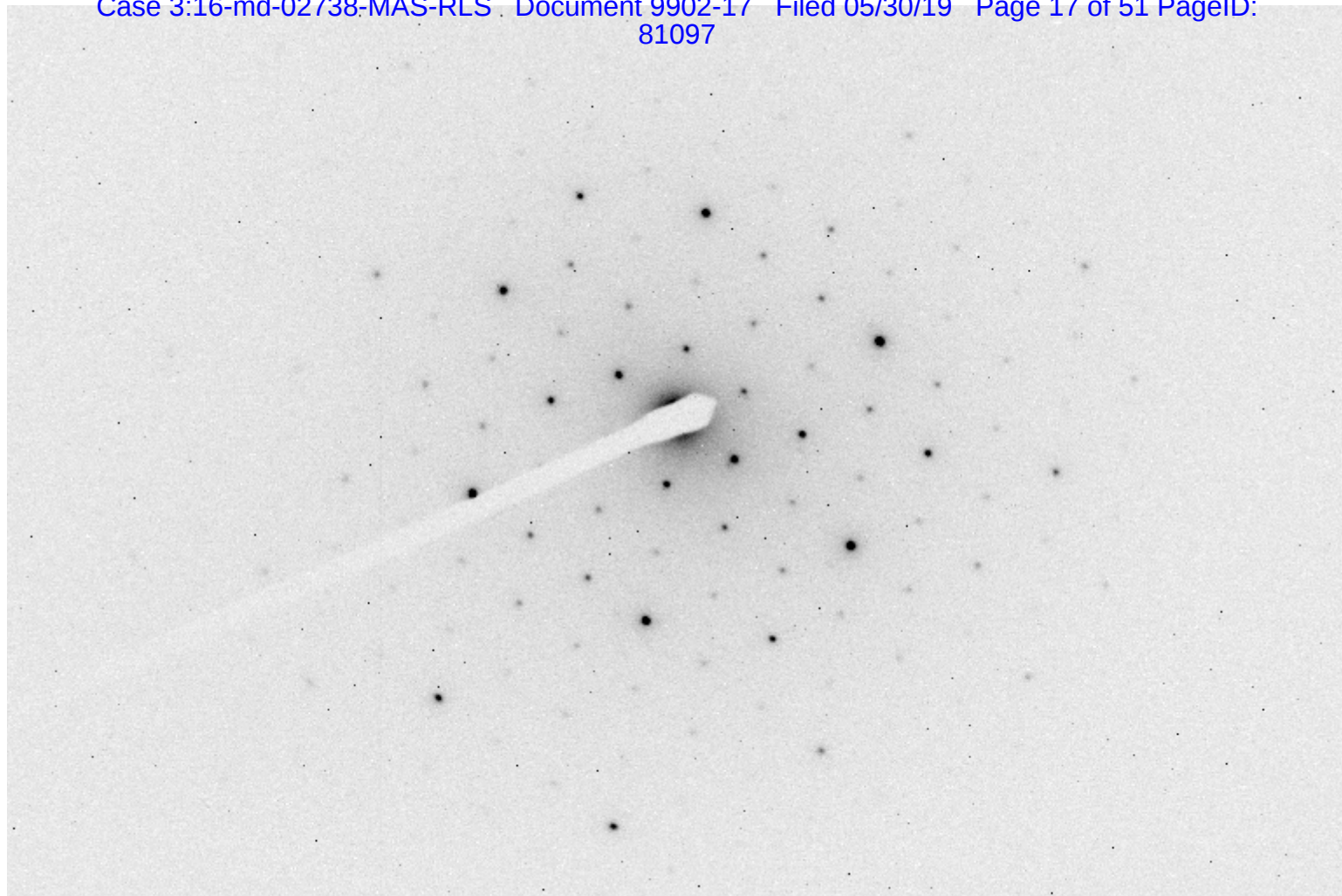
M69751-036-001 Tremolite (6.3um x 0.18um)

12/15/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-036		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G.O. Area
Date of Analysis	12/15/2018 - 12/16/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.04173			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	D2-D8	Fibrous Talc	6.05	0.75	8.1	Fibrous Talc Observed Trace throughout	

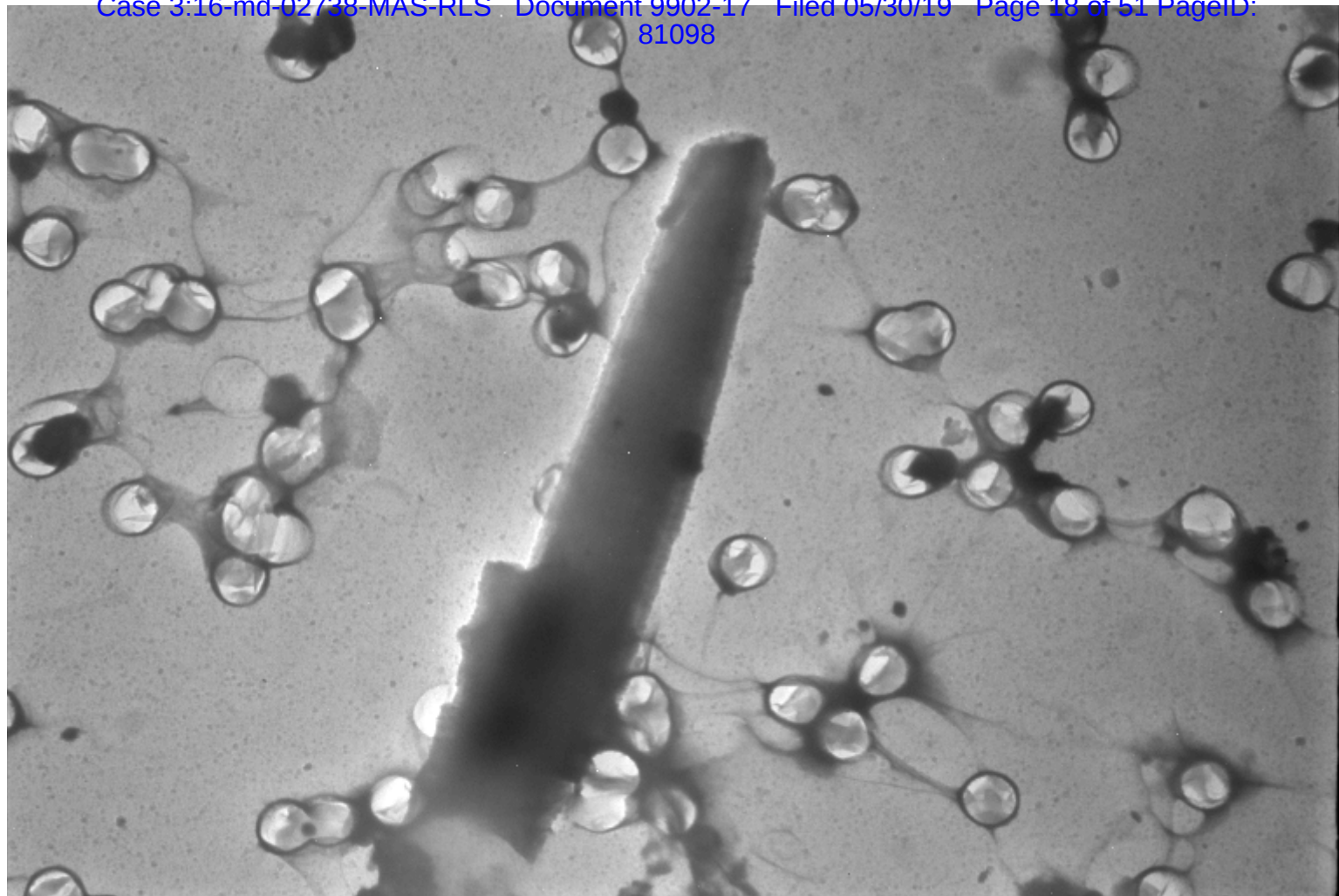




311046

M69751-036-Talc #1 Diffraction @ 50cm

12/16/2018



311049

M69751-036-Talc #1 (6.05 um x 0.75 um)

12/16/2018

Section 10

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503- 017ISO **Analyst** Paul Hess **Date** 10/31/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0060-38A
Location _____
Type_Mat Johnson's Baby Powder
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opaques
Talc
Mineral grains

 X
 X
 X

Binder Description

Comments X = Materials detected. *** Trace amount fibrous Talc observed.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503- 017BL1 **Analyst** Paul Hess **Date** 10/25/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0060-38A
Location _____
Type_Mat Johnson's Baby Powder (100mg prep)
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opagues
Talc
Mineral grains

 X
 X
 X

Binder Description

Comments X = Materials detected. ***Trace amount fibrous Talc observed.

The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-017		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/30/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02035			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	C3-B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
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NSD	E1							
NSD	E2							
NSD	E3							
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NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-017		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/30/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02035			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	D3-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	J9							
NSD	J10							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-017		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G. O. Area
Date of Analysis	10/30/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02035			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
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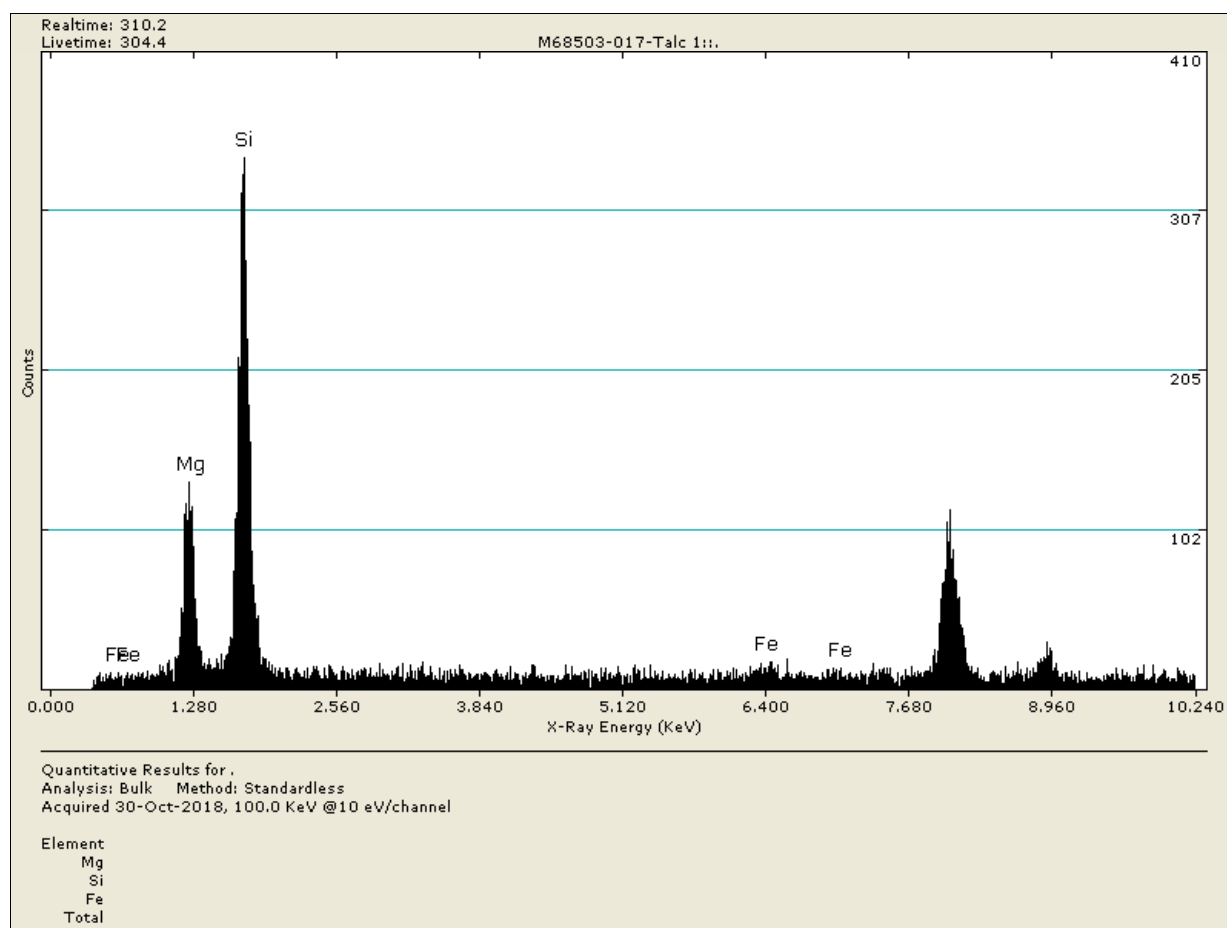
Org. Sample Wt.	Sample Wt. Post HL Separation	
0.02035	0.02035	g
Percent of Orig. Post Separation	100	(%)

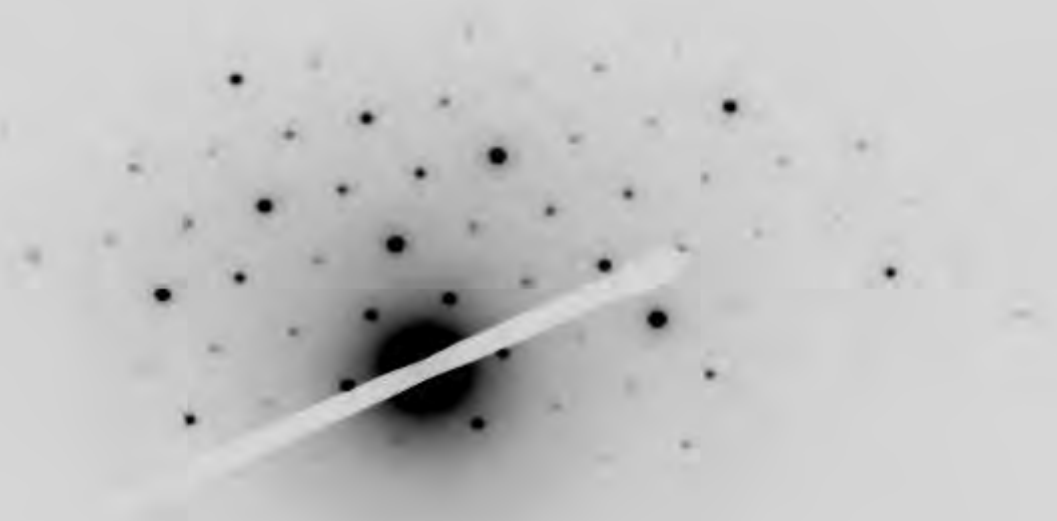
Wt. Of Sample Analyzed	0.00011157	g
Filter size	201.1	mm ²
Number of Structures Counted	0	Str.
Structures per Gram of Sample	<8963	Str./g

Detection Limit	8.96E+03	Str./g
Analytical Sensitivity	8.96E+03	Str./g

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-017		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Mehrdad Motamedi			Length	Width	G.O. Area
Date of Analysis	10/30/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.02035			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
4	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc 1	C3-D7	Fibrous Talc	7.9	0.8	9.9	Fibrous talc observed Trace through out	

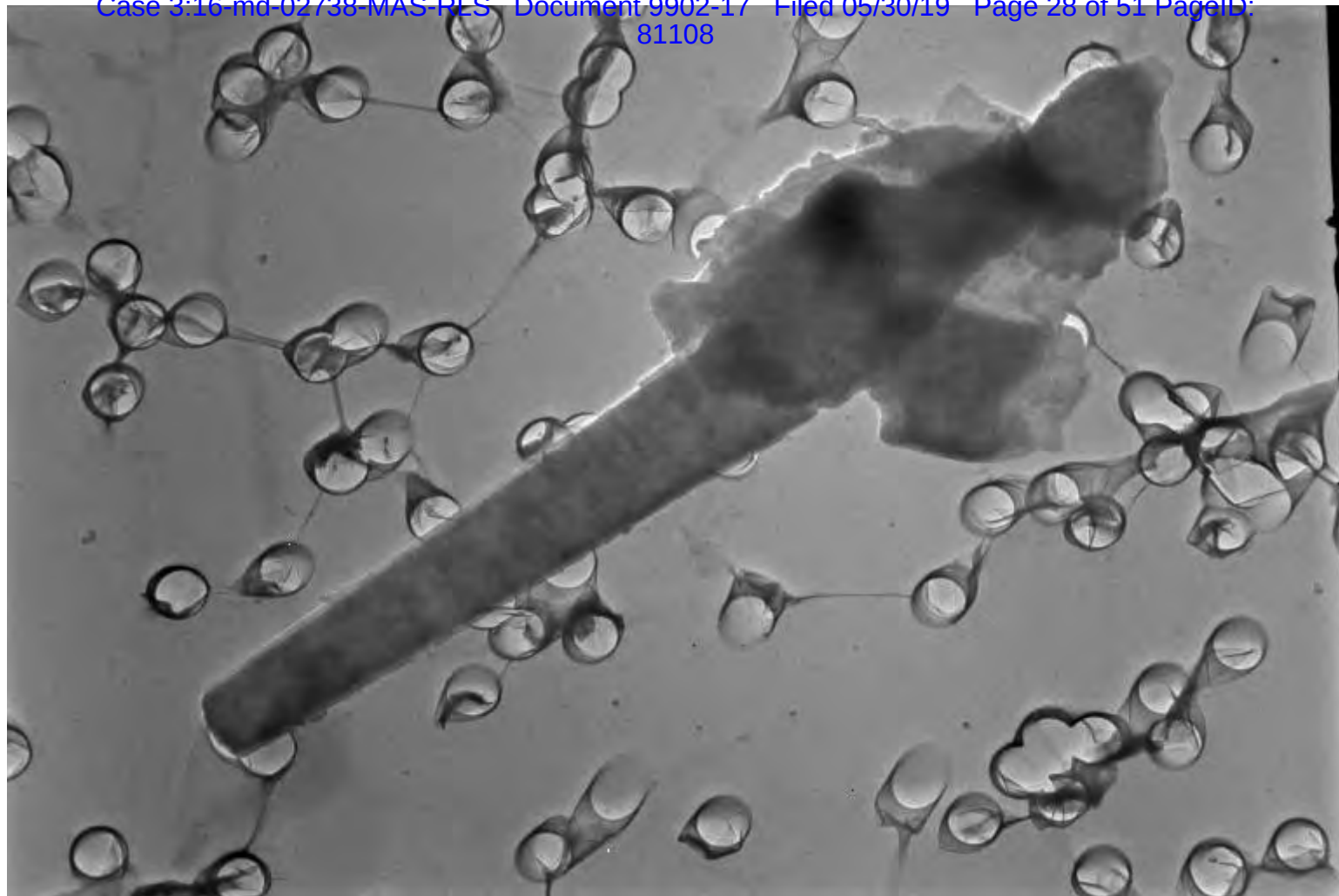




41374

M68503-017-Talc 1 Diffraction @ 50cm

10/30/2018



41375

M68503-017-Talc 1 (7.9um x 0.8um)

10/30/2018

Section 11

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69757 - 006ISO **Analyst** Paul Hess **Date** 12/13/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180344-04A
Location _____
Type_Mat Talc
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opagues

X

Talc

X

Mineral grains

X

Binder Description

Comments *** Moderate amount of fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69757 - 006BL **Analyst** Paul Hess **Date** 12/14/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180344-04A
Location _____
Type_Mat Talc
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

Opaques _____ X
Talc _____ X
Mineral grains _____ X

Binder Description _____

Comments X = Materials detected.

 The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-006		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04159			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E8-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	J9							
NSD	J10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-006		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04159			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E9-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	J9							
NSD	J10							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-006		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04159			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

Org. Sample Wt.	Sample Wt. Post HL Separation
0.04159	0.04159 g
Percent of Orig. Post Separation	100 (%)

Wt. Of Sample Analyzed	0.00022801 g
Filter size	201.1 mm ²
Number of Structures Counted	0 Str.
Structures per Gram of Sample	<4386 Str./g

Detection Limit	4.39E+03 Str./g
Analytical Sensitivity	4.39E+03 Str./g

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-006		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G.O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.04159			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

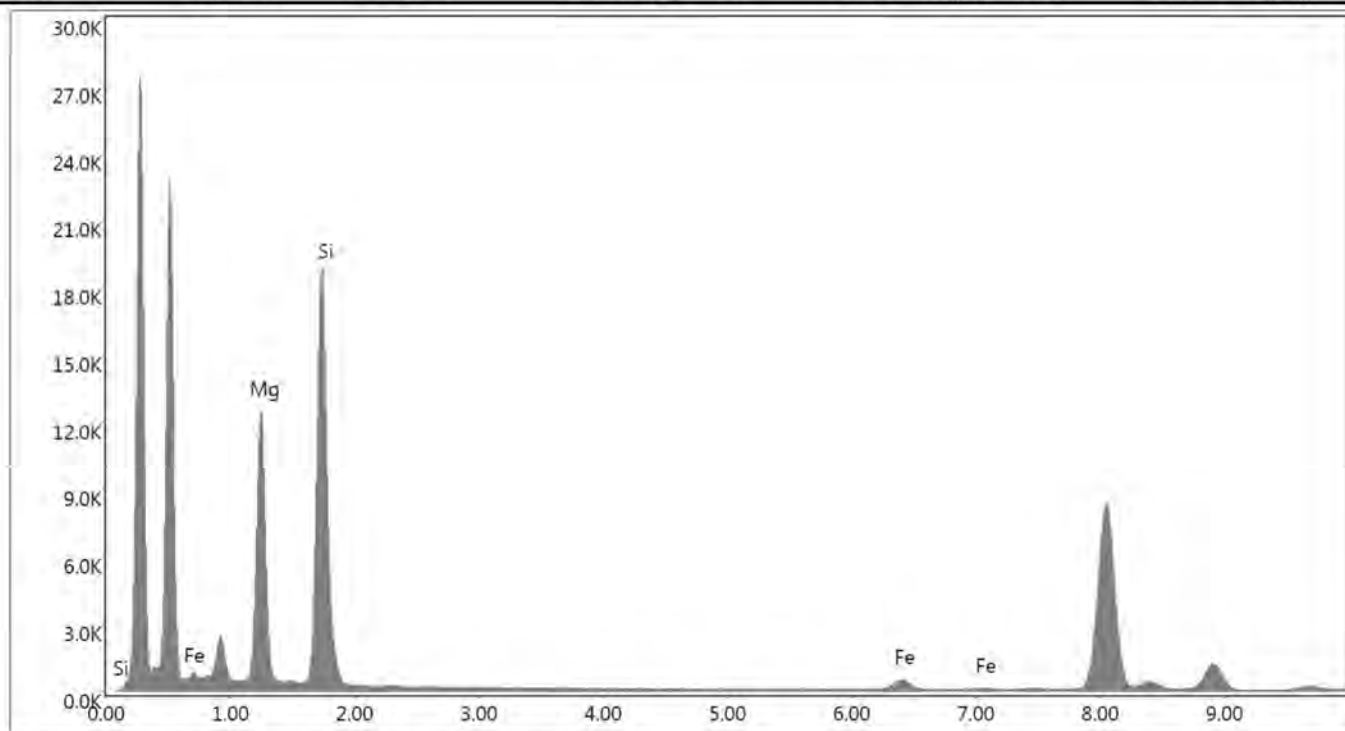
Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	E8-E5	F-Talc	2.9	0.56	5.2	Fibrous talc observed Trace throughout	

Analysis

Author: lab
Creation: 12/15/2018 4:16:32 PM
Sample Name: Talc

M69757-006-Talc #1

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 451 Cnts 1.470 keV Det: Apollo XLT2 SUTW



M69757-006-F-Talc #1 Diffraction.tif
Diffraction @ 50cm
16:16 12/15/2018



M69757-006-F-Talc #1 Image.tif
(2.9um x 0.56um)
16:08 12/15/2018

Section 12

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 002ISO Analyst Paul Hess Date 12/13/2018
 ClientName Beasley, Allen, Crow, Methvin, Portis & Miles ClientSpl 20180315-021A
 Location _____
 Type_Mat Talc
 Gross Off-white powder % of Sample 100
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %
NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opagues
 Talc
 Mineral grains

X
 X
 X

Binder Description

Comments *** Moderate amount of fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 002BL **Analyst** Paul Hess **Date** 12/14/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180315-021A
Location _____
Type_Mat Talc
Gross Off-white debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %
NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

Opaques _____
Talc _____
Mineral grains _____

Binder Description _____

Comments X = Materials detected.

The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-002		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.0413			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	A8-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-002		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.0413			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	A9-A1							
NSD	A3							
NSD	A4							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-002		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.0413			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

Org. Sample Wt.	Sample Wt. Post HL Separation
0.04130	0.04130 g
Percent of Orig. Post Separation	100 (%)

Wt. Of Sample Analyzed	0.00022642 g
Filter size	201.1 mm ²
Number of Structures Counted	0 Str.
Structures per Gram of Sample	<4417 Str./g

Detection Limit	4.42E+03 Str./g
Analytical Sensitivity	4.42E+03 Str./g

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-002		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G.O. Area
Date of Analysis	12/15/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.04130			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
NSD	A8-A1					No fibrous talc observed	

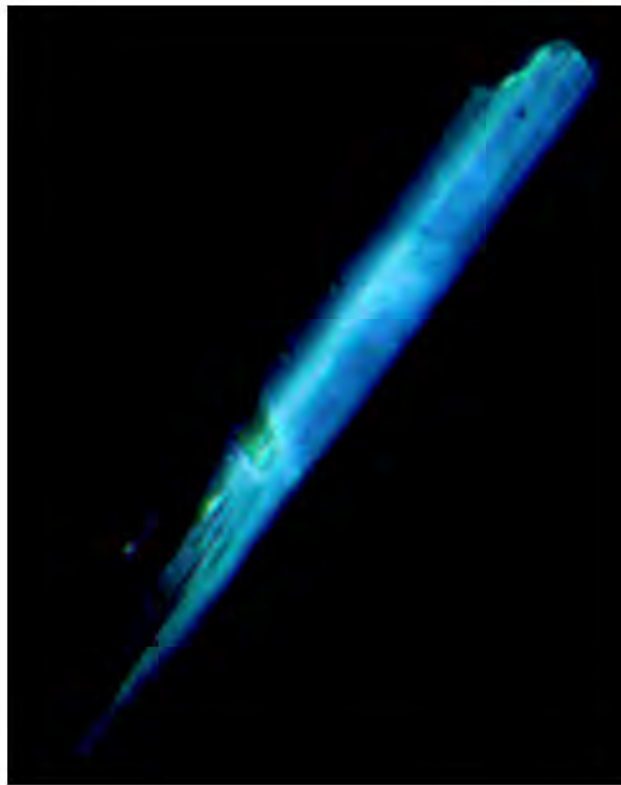
ATLANTA

Corporate Headquarters
3945 Lakefield Court
Suwanee, GA 30024

(770) 866-3200 FAX (770) 866-3259



Analysis of J&J's Historical Talc Samples From the 2000's



Prepared by:

William E. Longo, Ph.D
Mark W. Rigler, Ph.D

Materials Analytical Services, LLC
3945 Lakefield Court
Suwanee, Georgia 30024

January, 2019

ATLANTA
Corporate Headquarters
3945 Lakefield Court
Suwanee, GA 30024
(770) 866-3200 FAX (770) 866-3259



**Analysis of Historical J&J's Talc
Samples from the 2000s**

January 2019

1	Summary of Results
2	Chain of Custody
3	M69751-001 2000
4	M69751-006 2000
5	M69751-007 2000
6	M69751-038 2000
7	M69751-004 2001
8	M69751-008 2003

Section 1

ATLANTA
Corporate Headquarters
3945 Lakefield Court
Suwanee, GA 30024
(770) 866-3200 FAX (770) 866-3259



**Summary of Results for Johnson & Johnson's
2000's Historical JBP & STS Samples**

MAS/J ³ Sample Number	Client Sample ID	Year of Mnfr.	Amphibole Asbestos Structures/g	Amphibole Asbestos wt. %	Analytical Sensitivity Structures/g	ISO PLM wt. %	Blount PLM wt. %
M69751-001	2018-0315-01A	2000	4400	0.000017	4400	NAD	NAD
M69751-006	2018-0316-020A	2000	4600	0.0000024	4600	NAD	<0.1 Tre/Act
M69751-007	2018-0316-021A	2000	8700	0.000024	4300	NAD	NAD
M69751-038	2018-0317-04A	2000	<4400	<0.0000268	4400	NAD	NAD
M69751-004	2018-0315-040A	2001	<4300	<0.0000268	4300	NAD	NAD
M69751-008	2018-0316-022A	2003	<4400	<0.0000268	4400	NAD	NAD

NAD: no asbestos detected.

M69751-001

Str. #	Length (µm)	Width (µm)	Aspect Ratio	Structure Type	Asbestos Type
-1	10.5	1.2	8.8	Bundle	Tremolite

Average Aspect Ratio: 8.8

M69751-006

Str. #	Length (µm)	Width (µm)	Aspect Ratio	Structure Type	Asbestos Type
-1	8.2	0.5	16.4	Bundle	Tremolite

Average Aspect Ratio: 35.0

M69751-007

Str. #	Length (µm)	Width (µm)	Aspect Ratio	Structure Type	Asbestos Type
-1	16.0	1	16.0	Bundle	Tremolite
-2	7.6	0.9	8.4	Bundle	Tremolite

Average Aspect Ratio: 12.2

Section 2

MAS, LLC.
CHAIN-OF-CUSTODY

CLIENT: Beasley, Allen, Crow, Methvin, Portis & Miles
CONTACT: Leigh O'Dell
PHONE:
CLIENT JOB NAME: 14-2134 MDL Litigation
CLIENT JOB#: 14-2134 MDL Litigation
CLIENT DOC(S): COC
FAX NUMBER:

MAS JOB: M69751
LOGIN DATE: 12/7/2018
SUBMITTED BY: Alliance Technologies
TRANSPORT: Fed Ex 773877593064
RECEIVED BY: ShaQuanna Armstrong
CONDITION: Good

MAS LOCATION: RM. 123

DATE/BY: 12/10/2018 MA

PREP BY: JAM DATE: 12/13/18
ANALYSIS BY: PH DATE: 12/13-15/18
QC BY: [Signature] DATE: 12/21/2018
REPORT BY: [Signature] DATE: 12/21/2018
REVIEWED BY: [Signature] DATE: 12/21/2018

FINAL DISPOSITION BY
LOCATION: LEGAL ARCHIVE RM. 123 12/15/18
DATE: _____

MAS #	CLIENT ID	VOLUME	TYPE	MATERIAL
001BL	20180315-01A			Talc
LOCATION				
001ISO	20180315-01A			Talc
LOCATION				
002BL	20180315-021A			Talc
LOCATION				
002ISO	20180315-021A			Talc
LOCATION				
003	20180315-025A			Talc
LOCATION				
004BL	20180315-040A			-Talc
LOCATION				
004ISO	20180315-040A			Talc
LOCATION				
005	20180316-019A			Talc
LOCATION				

MAS #	CLIENT ID	VOLUME	TYPE	MATERIAL
006BL	20180316-020A			Talc
LOCATION				
006ISO	20180316-020A			Talc
LOCATION				
007BL	20180316-021A			Talc
LOCATION				
007ISO	20180316-021A			Talc
LOCATION				
008BL	20180316-022A			Talc
LOCATION				
008ISO	20180316-022A			Talc
LOCATION				
009	20180316-023A			Talc
LOCATION				
010	20180316-024A			Talc
LOCATION				

SAMPLE(S) RETURNED BY: N/A DATE: _____
FEDEX TRACKING # _____
RECEIVED BY: [Signature] DATE: 12/10/18

COMMENT For Samples Analyzed Only PLM ANALYSIS

MAS, LLC.
3945 Lakefield Court
Suwanee, Georgia 30024
(770) 866-3200

1/13/14 Revision 0

M69751

Page 1 of 3